

surface science

The First Thirty Years

**Editor:
Charles B. Duke**

Surface Science The First Thirty Years

Frank Ernst, Manfred Rühle



Surface Science The First Thirty Years:

Surface Science Charles B. Duke, 1994 A collection of articles describing the historical developments from 1964 to 1992 of selected topics in surface science This text aims to provide readers with an overview of the field and an indication of future directions

Surface Science K. Oura, V.G. Lifshits, A.A. Saranin, A.V. Zotov, M. Katayama, 2013-03-14 Designed as a textbook for advanced undergraduate and graduate students in engineering and physical sciences who are seeking a general overview of surface science this book also provides the necessary background for researchers just starting out in the field It covers all the most important aspects of modern surface science from the experimental background and crystallographic basics to modern analytical techniques and applications to thin films and nanostructures All topics are presented in a concise and clear form accessible to a beginner At the same time the coverage is comprehensive and at a high technical level with emphasis on the fundamental physical principles Numerous examples references practice exercises and problems complement this remarkably complete treatment which will also serve as an excellent reference for researchers and practitioners

Frontiers in Surface Science and Interface Science C.B. Duke, E. Ward Plummer, 2002-05-21 Any notion that surface science is all about semiconductors and coatings is laid to rest by this encyclopedic publication Bioengineered interfaces in medicine interstellar dust DNA computation conducting polymers the surfaces of atomic nuclei all are brought up to date Frontiers in Surface and Interface Science a milestone publication deserving a wide readership It combines a sweeping expert survey of research today with an educated look into the future It is a future that embraces surface phenomena on scales from the subatomic to the galactic as well as traditional topics like semiconductor design catalysis and surface processing modeling and characterization And great efforts have been made to express sophisticated ideas in an attractive and accessible way Nanotechnology surfaces for DNA computation polymer based electronics soft surfaces interstellar surface chemistry all feature in this comprehensive collection

Introduction to Surface and Thin Film Processes John Venables, 2000-08-31 This book covers the experimental and theoretical understanding of surface and thin film processes It presents a unique description of surface processes in adsorption and crystal growth including bonding in metals and semiconductors Emphasis is placed on the strong link between science and technology in the description of and research for new devices based on thin film and surface science Practical experimental design sample preparation and analytical techniques are covered including detailed discussions of Auger electron spectroscopy and microscopy Thermodynamic and kinetic models of structure are emphasised throughout The book provides extensive leads into practical and research literature as well as resources on the World Wide Web see <http://venables.asu.edu/book> Each chapter contains problems which aim to develop awareness of the subject and the methods used Aimed as a graduate textbook this book will also be useful as a sourcebook for graduate students researchers and practitioners in physics chemistry materials science and engineering

Assessment of Department of Defense Basic Research National Research Council, Division on

Engineering and Physical Sciences, Committee on Department of Defense Basic Research, 2005-01-22 The Department of Defense DOD supports basic research to advance fundamental knowledge in fields important to national defense Over the past six years however several groups have raised concern about whether the nature of DOD funded basic research is changing The concerns include these Funds are being spent for research that does not fall under DOD's definition of basic research reporting requirements have become cumbersome and onerous and basic research is handled differently by the three services To explore these concerns the Congress directed DOD to request a study from the National Research Council NRC about the nature of basic research now being funded by the Department Specifically the NRC was to determine if the programs in the DOD basic research portfolio are consistent with the DOD definition of basic research and with the characteristics associated with fundamental research Solid Surfaces, Interfaces and Thin Films Hans Lüth, 2013-04-17

This book emphasises both experimental and theoretical aspects of surface interface and thin film physics Compared to the earlier editions which bore the title Surfaces and Interfaces of Solid Materials the book now places more emphasis on thin films including also their superconducting and ferromagnetic properties The present 4th edition thus presents techniques of preparing well defined solid surfaces and interfaces fundamental aspects of adsorption and layer growth as well as basic models for the description of structural vibronic and electronic properties of surfaces interfaces and thin films Because of their importance for modern information technology significant attention is paid to the electronic properties of semiconductor interfaces and heterostructures Collective phenomena such as superconductivity and ferromagnetism also feature prominently Experimental sections covering essential measurement and preparation techniques are presented in separate panels **Concepts in Surface Physics** M.-C. Desjonqueres, D. Spanjaard, 2012-12-06 Concepts in Surface Physics

presents a tutorial treatment of the main concepts and phenomena of the physics of crystal surfaces Emphasis is placed on simplified calculations and the corresponding detailed analytical derivations that are able to throw light on the most important physical mechanisms More rigorous techniques which often require a large amount of computer time are also explained The topics treated include thermodynamic and statistical properties of clean and adsorbate covered surfaces atomic structure vibrational properties electronic structure and the theory of physisorption and chemisorption As well as including some improvements on the original book this second edition has been supplemented with problems to encourage students to investigate the subject more thoroughly *Topics in Electron Diffraction and Microscopy of Materials* Peter. B

Hirsch, 1999-01-01 Topics in Electron Diffraction and Microscopy of Materials celebrates the retirement of Professor Michael Whelan from the University of Oxford Professor Whelan taught many of today's heads of department and was a pioneer in the development and use of electron microscopy His collaborators and colleagues each one of whom has made important advances in the use of microscopy to study materials have contributed to this cohesive work The book provides a useful overview of current applications for selected electron microscope techniques that have become important and widespread in

their use for furthering our understanding of how materials behave Linked through the dynamical theory of electron diffraction and inelastic scattering the topics discussed include the history and impact of electron microscopy in materials science weak beam techniques for problem solving defect structures and dislocation interactions using beam diffraction patterns to look at defects in structures obtaining chemical identification at atomic resolution theoretical developments in backscattering channeling patterns new ways to look at atomic bonds using numerical simulations to look at electronic structure of crystals RHEED observations for MBE growth and atomic level imaging applications

Materials and Processes for Surface and Interface Engineering Y. Pauleau, 2012-12-06 Materials and Processes for Surface and Interface Engineering which has been written by experts in the fields of deposition technology and surface modification techniques offers up to date tutorial papers on the latest advances in surface and interface engineering The emphasis is on fundamental aspects principles and applications of plasma and ion beam processing technology A handbook for the engineer and scientist as well as an introduction for students in several branches of materials science and surface engineering

Thin Films: Heteroepitaxial Systems Amy W K Liu, Michael B Santos, 1999-06-01 Heteroepitaxial films are commonplace among today's electronic and photonic devices The realization of new and better devices relies on the refinement of epitaxial techniques and improved understanding of the physics underlying epitaxial growth This book provides an up to date report on a wide range of materials systems The first half reviews metallic and dielectric thin films including chapters on metals rare earths metal oxide layers fluorides and high T_c superconductors The second half covers semiconductor systems reviewing developments in group IV arsenide phosphide antimonide nitride II VI and IV VI heteroepitaxy Topics important to several systems are covered in chapters on atomic processes ordering and growth dynamics

Materials Science of Thin Films Milton Ohring, 2002 This is the first book that can be considered a textbook on thin film science complete with exercises at the end of each chapter Ohring has contributed many highly regarded reference books to the AP list including Reliability and Failure of Electronic Materials and the Engineering Science of Thin Films The knowledge base is intended for science and engineering students in advanced undergraduate or first year graduate level courses on thin films and scientists and engineers who are entering or require an overview of the field Since 1992 when the book was first published the field of thin films has expanded tremendously especially with regard to technological applications The second edition will bring the book up to date with regard to these advances Most chapters have been greatly updated and several new chapters have been added

Physical Structure, 1996-12-06 The primary goal of this book is to summarize the current level of accumulated knowledge about the physical structure of solid surfaces with emphasis on well defined surfaces at the gas solid and vacuum solid interfaces The intention is not only to provide a standard reference for practitioners but also to provide a good starting point for scientists who are just entering the field The presentation in most of the chapters therefore assumes that the typical reader will have a good undergraduate background in chemistry physics or materials science At the same time coverage is

comprehensive and at a high technical level with emphasis on fundamental physical principles This first volume in a new series is appropriately devoted to the physical structure of surfaces knowledge of which will be essential for a complete understanding of electronic properties and dynamical processes the topics of the next two volumes in the series The volume is divided into four parts Part I describes the equilibrium properties of surfaces with emphasis on clean surfaces of bulk materials Part II provides an introduction to some of the primary experimental methods that are used to determine surface crystal structures Part III gives an overview of the vast topic of the structure of adsorbed layers The concluding Part IV deals with the topics of defects in surface structures and phase transitions

Advances in Catalysis Bruce C. Gates, Helmut Knoezinger, 2001-05-14 Surface science emerged in the 1960s with the development of reliable ultrahigh vacuum apparatus providing exact structures of surfaces of metal single crystals information about their compositions and relationships between surface structure and composition and catalytic reaction rates Catalysis the acceleration of a chemical reaction by a catalyst substance provided much of the driving force for the early development of surface science As surface science continues its rapid development this book illustrates how it is still driven by the challenges of catalysis and how both theory and scanning tunneling microscopy have forcefully emerged as essential tools It is also evident how surface science continues to serve as the foundation of catalytic science This is a compendium written by leading surface scientists presenting an incisive assessment of up to date theoretical and experimental results constituting the foundation of fundamental understanding of surface catalysis This paperback

Theoretical Modelling of Semiconductor Surfaces G. P. Srivastava, 1999 The state of the art theoretical studies of ground state properties electronic states and atomic vibrations for bulk semiconductors and their surfaces by the application of the pseudopotential method are discussed Studies of bulk and surface phonon modes have been extended by the application of the phenomenological bond charge model The coverage of the material especially of the rapidly growing and technologically important topics of surface reconstruction and chemisorption is up to date and beyond what is currently available in book form Although theoretical in nature the book provides a good deal of discussion of available experimental results Each chapter provides an adequate list of references relevant for both theoretical and experimental studies The presentation is coherent and self contained and is aimed at the postgraduate and postdoctoral levels

Future Directions In Thin Film, Science And Technology, proc Of The 9th International School On Condensed Matter Phy J M Marshall, J M Maud, Nikolav Kirov, A Varek, 1997-09-05 There is a major international interest in thin film materials and devices Future Directions in Thin Film Science and Technology stimulated by important current and projected applications in many areas of information technology and other fields constitutes the proceedings of the Ninth International School on Condensed Matter Physics It features invited review articles by over 40 scientists of international repute covering many aspects of thin film science and technology Also included is a broad selection of shorter contributed papers by other participants describing results of their recent research The book will be of interest to

has always had interests The authors for each chapter were chosen from some of the many eminent scientists who have worked with Wyn in various ways and are all internationally acknowledged as leaders in their field The authors have produced authoritative reviews of their own specialties which together result in a book with an unrivalled combination of breadth and depth exploring the most recent developments in surface chemistry and catalysis *Surface Science* John Hudson, 2013-10-22 The whole field of surface science is covered in this work Starting with a description of the structure and thermodynamics of clean surfaces the book goes on to discuss kinetic theory of gases and molecular beam formation This is followed by a large section on gas surface interactions and another major section on energetic particle surface interactions The final chapter provides the background to crystal nucleation and growth The approach adopted is interdisciplinary and slanted towards the experimental side with practical analytical techniques being used to illustrate general principles

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